



# Institute of Arctic Biology

University of Alaska Fairbanks

## *Assistant/Associate Professor of Wildlife Toxicology*

The Institute of Arctic Biology and Department of Biology and Wildlife at the University of Alaska Fairbanks seek a toxicologist using cellular and molecular approaches to study wild populations of vertebrates. This tenure-track position is supported by an NIH-sponsored grant that provides access to core equipment, travel, student support, and seed funds. The successful candidate will be expected to develop an externally funded research program and to be effective in teaching two courses per year and training graduate students in areas such as wildlife disease, cell biology, immunology or ecotoxicology. The University of Alaska is establishing a program in molecular toxicology as part of its BRIN (Biomedical Research Infrastructure Network; <http://www.alaska.edu/brin/>) program supported through a grant from the National Center for Research Resources (National Institutes of Health). Five faculty positions are funded, two are in Anchorage and three in Fairbanks. A sixth faculty member will be part of a new Bioinformatics Program that includes four total faculty and associations with the Arctic Region Supercomputing Center (<http://www.arisc.edu/>) and the Institute of Systems Biology (<http://www.systemsbiology.org/>).

Applications must include a signed applicant form ([http://www.alaska.edu/hr/forms/hr\\_employmentforms.xml](http://www.alaska.edu/hr/forms/hr_employmentforms.xml)), curriculum vitae, statements of teaching philosophy and research interests, representative reprints, and at least three letters of recommendation. Send applications to Wildlife Toxicology Search, PCN# 248016 REQ#FF24801601, UAF Human Resources, P.O. Box 757860, University of Alaska Fairbanks, Fairbanks, AK 99775-7860, Fax (907) 474-5859, e-mail: [fyjobs@uaf.edu](mailto:fyjobs@uaf.edu). Positions will remain open until filled. Further information about the University and the position is available at: <http://mercury.bio.uaf.edu/> or from Dr. Perry S. Barboza ([ffpsb@uaf.edu](mailto:ffpsb@uaf.edu)) or Dr. R. Terry Bowyer ([ffrtb@uaf.edu](mailto:ffrtb@uaf.edu)). The University of Alaska is an Equal Opportunity/ Affirmative Action Employer and Educational Institution.

## MOLECULAR TOXICOLOGY Faculty Position

The University of Texas Medical Branch (UTMB) Department of Pathology invites applications for a tenure track faculty position at the assistant or associate professor level. Candidates for appointment at the associate professor rank should be established investigators with demonstrated ability to maintain an active research program through extramural funding in a specific area within the broad field of molecular toxicology and its applications to adverse environmental human exposure. A strong background in molecular toxicology with expertise in the developing fields of toxicogenomics and/or proteomics is desirable.

The successful candidate will be expected to develop an independent research program that will complement and enhance the research efforts of already established toxicology investigators within the Department of Pathology ([www.utmb.edu/pathology](http://www.utmb.edu/pathology)), as well as numerous multidisciplinary investigators associated with UTMB's NIEHS Center in Environmental Toxicology (<http://www.niehs.utmb.edu/>) and the foundation-supported Sealy Center for Environmental Health and Medicine. Campus resources include a bioinformatics work group, proteomics core facility, structural biology center and other research centers of excellence.

Candidates must possess a M.D., Ph.D., or equivalent degree in an area relevant to environmental health science disciplines.

Information about the institution and its excellent resources can be found at [www.utmb.edu](http://www.utmb.edu) and [www.utmb.edu/core.htm](http://www.utmb.edu/core.htm). Opportunities exist for participation in a NIEHS T32 training program.

Salary is commensurate with experience and level of accomplishments, and a generous start-up package is available. Interested applicants should submit a curriculum vitae, plan for future research program(s), and three letters of reference to: **David H. Walker, M.D., Chairman, Department of Pathology, The University of Texas Medical Branch, 301 University Boulevard, Galveston, Texas 77555-0609. E-mail: [dwalker@utmb.edu](mailto:dwalker@utmb.edu)**

The position will be open until filled, but no later than June 30, 2003. UTMB is an equal opportunity employer. Minorities and females are encouraged to apply. UTMB hires only individuals authorized to work in the U.S.



## COLUMBIA UNIVERSITY

### Assistant/Associate Professor Position

The Department of Environmental Health Sciences at Columbia University, Mailman School of Public Health, seeks to recruit new faculty members at the Assistant and Associate Professor level, based on the level of current academic credentials. The Department has considerable research expertise in chemical carcinogenesis, molecular epidemiology, metal toxicology, community-based research, and air quality and respiratory disorders. It is home to two NIEHS centers, the Center for Environmental Health in Northern Manhattan, and the Children's Environmental Health Center and a Superfund Basic Research Program. The Department's strong teaching program offers M.P.H., Dr.P.H., and Ph.D. degrees and attracts outstanding applicants. While candidates in all areas of EHS will be considered, special consideration will be given to those with active laboratory-based research programs in the following areas: asthma, neurotoxicology/neurodegenerative disease, metal biochemistry, and exposure assessment. Candidates must have a Doctorate with demonstrated research experience.

Applicants should send a letter describing research and teaching interests, full curriculum vitae, and the names of three references to:

**Dr. Paul W. Brandt-Rauf, Chairman**  
**Department of Environmental Health Sciences**  
**Columbia University, Mailman School of Public Health**  
**60 Haven Avenue, B-106**  
**New York, NY 10032**

Columbia University is an equal opportunity/affirmative action employer and welcomes applications from qualified women and minority candidates



**Staff Scientist/Neuropathologist**  
**Department of Health and Human Services**  
**National Institutes of Health**  
**National Institute of Environmental Health Sciences**  
**Research Triangle Park, North Carolina**

The Division of Intramural Research, Laboratory of Experimental Pathology is seeking a highly motivated staff scientist to provide support of neuroscience research at NIEHS. The successful scientist will be responsible for providing neuroanatomical evaluation, pathology diagnostic and in situ hybridization support services for multiple investigators.

Minimum qualifications include an MD, DVM, or Ph.D degree with relevant immunohistochemistry and in situ hybridization experience in nervous system tissue. Training and experience in rodent developmental neuroanatomy OR specialty board certification in neuropathology will be considered as additional qualifications. For additional information about this position, contact Carolyn Hall at [hall7@niehs.nih.gov](mailto:hall7@niehs.nih.gov) and the inquiry will be forwarded to the appropriate individual for response.

Applications from women and minority groups are particularly encouraged. The initial appointment is for five years and may be renewed every five years indefinitely. Salary commensurate with background. Interested parties should submit a curriculum vitae, bibliography, brief statement of research interests and arrange for three letters of recommendation to be sent to:

Ms. Tammy Locklear (HNV03-17)  
 NIEHS Human Resource Management Branch  
 P.O. Box 12233, Maildrop NH-01  
 Research Triangle Park, NC 27709  
 Phone: 919-541-3317; e-mail: [locklea1@niehs.nih.gov](mailto:locklea1@niehs.nih.gov)

Applications received by June 16, 2003, will be given first consideration. Applications received after that date will be considered only if the position has not been filled.



**DHHS/NIH is an Equal Opportunity Employer**





**Staff Scientist in Molecular Biology**  
 Department of Health and Human Services  
 National Institutes of Health  
 National Institute of Environmental Health Sciences  
 Research Triangle Park, North Carolina

The Laboratory of Signal Transduction at the National Institute of Environmental Health Sciences is recruiting a staff scientist in support of the Transmembrane Signaling Group headed by Dr. Lutz Birnbaumer. The incumbent will oversee group efforts in generating and studying genetically modified mice to characterize the molecular and genetic basis for phenotypes that arose from inactivating G protein alpha subunits and C-type transient receptor potential channels (TRPCs). The selectee will be expected to personally execute experiments, oversee up to three technical support personnel and train and supervise group graduate students and postdoctoral fellows in the conduct of this area of research. The person will also be expected to oversee the breeding and genotyping of several colonies of already existing knockout mice, in addition to those that will be generated by and are under the direction of the candidate. Three current major projects aim at (1) identifying QTLs responsible for strain dependent development of ulcerative colitis in Gi2 knockout mice; (2) 'curing' the turning syndrome of Go deficient mice by selective expression of Go in subsets of CNS neurons by knock-in techniques; and (3) identifying the mechanism for interruption of signaling in retinal bipolar ON cells in Go deficient mice. The successful candidate is expected to work with minimal guidance, carry the research to publishable stages and work on these and other projects as defined by the group leader.

**Minimum qualifications** include a doctoral degree, successful completion of postdoctoral training, record of publications and strong background in molecular biology, including construction of genomic libraries, screening of cDNA and genomic libraries, assembly of multi-component plasmid vectors and be familiar with positional cloning techniques.

For additional information, contact Dr. Lutz Birnbaumer at [birnbau1@niehs.nih.gov](mailto:birnbau1@niehs.nih.gov). For additional information concerning the research projects and publications, visit the following website: <http://dir.niehs.nih.gov/dirist/groups/birnbaumer.htm>. Applications from women and minorities are particularly encouraged. **To apply**, submit a curriculum vitae, bibliography, brief statement of research interests and arrange for three letters of recommendation to be sent by June 16, 2003, to the following address. Applications received after that date will be considered as needed:

Ms. Celeste Edwards (HNV03-16)  
 NIEHS Human Resource Management Branch  
 P.O. Box 12233, Maildrop NH-01  
 Research Triangle Park, NC 27709  
 919-316-4602 e-mail: [edwards3@niehs.nih.gov](mailto:edwards3@niehs.nih.gov)



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**NIEHS** Laboratory of Signal Transduction

**Molecular Basis for Apoptosis and Regulation of Apoptosis**  
 (HNV03-10)

A postdoctoral position is available to study the Molecular Basis for Apoptosis and Regulation of Apoptosis in health and disease. The position is in the Laboratory of Signal Transduction at the National Institute of Environmental Health Sciences, NIH, in Research Triangle Park, North Carolina. Training will occur in a highly interactive, state of the art equipped laboratory under the direction of Dr. John A. Cidlowski. Studies can include actions of pro and anti-apoptotic genes, mechanisms of suppression of apoptosis, elucidation of signaling pathways in apoptosis. Expertise in molecular biology, flow cytometry, biochemistry and/or confocal microscopy is desirable.

Applicants must not possess more than five years of post doctoral experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to the hiring scientist at the corresponding laboratory and mail drop in care of NIEHS, PO Box 12233, Research Triangle Park, NC 27709 USA. The cover letter should include the position title and HNV number. The NIEHS is an equal opportunity employer.

**Contact:** Dr. John A. Cidlowski, Laboratory of Signal Transduction, MD F3-07, 919-541-1564, fax: 919-541-1367, e-mail: [cidlows1@niehs.nih.gov](mailto:cidlows1@niehs.nih.gov)

**NIEHS** Laboratory of Structural Biology

**Crystallographic analysis of phagocyte receptors**  
 (HNV03-12)

Postdoctoral positions are available for motivated individuals to pursue the structural biology of cell surface receptors on phagocytes using x-ray crystallography and SPR binding studies. We are particularly interested in the roles some of these receptors play in the disease of atherosclerosis and also in antigen presentation. Applicants should have a PhD with less than 5 years postdoctoral training. Crystallographic experience is highly desirable.

Applicants must not possess more than five years of post doctoral experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to the hiring scientist at the corresponding laboratory and mail drop in care of NIEHS, PO Box 12233, Research Triangle Park, NC 27709 USA. The cover letter should include the position title and HNV number. The NIEHS is an equal opportunity employer.

**Contact:** Dr. Jeffrey C. Boyington, Laboratory of Structural Biology, MD F3-08, 919-316-4560, fax: 919-316-4570, e-mail: [boyingt1@niehs.nih.gov](mailto:boyingt1@niehs.nih.gov)

**NIEHS** Laboratory of Molecular Carcinogenesis

**Cell Adhesion and Signal Transduction in Metastasis**  
 (HNV03-11)

A position is available to study signal transduction pathways that regulate cell adhesion, invasion and metastasis in tumor cells. The focus is on the modulation of these pathways by environmental factors, such as fatty acids. Special interests include the role of MAP kinases, protein kinase C, and N-linked protein glycosylation in tumor cell behavior. Candidates should have experience in cell and molecular biology, and must have less than 5 years of post-doctoral training.

Applicants must not possess more than five years of post doctoral experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to the hiring scientist at the corresponding laboratory and mail drop in care of NIEHS, PO Box 12233, Research Triangle Park, NC 27709 USA. The cover letter should include the position title and HNV number. The NIEHS is an equal opportunity employer.

**Contact:** Dr. John D. Roberts, Laboratory of Molecular Carcinogenesis, MD C2-14, 919-541-5023, fax: 919-541-0146, e-mail: [roberts1@niehs.nih.gov](mailto:roberts1@niehs.nih.gov)

**NIEHS** Biostatistics Branch

**Research Fellow Position in Bayesian Statistics**  
 (HNV03-09)

The Biostatistics Branch at the National Institute of Environmental Health Sciences, National Institutes of Health, has a Research Fellow position available beginning in summer or fall of 2003. The Fellow will engage in research on Bayesian methodology in collaboration with David Dunson, motivated by toxicology, epidemiology and fertility applications. Candidates with interest in these application areas and/or in theoretical work in survival analysis, latent variables, multivariate analysis and order restricted inference are particularly encouraged to apply. A Ph.D. or equivalent degree in statistics, biostatistics or a related area is required.

Applicants must not possess more than five years of post doctoral experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to the hiring scientist at the corresponding laboratory and mail drop in care of NIEHS, PO Box 12233, Research Triangle Park, NC 27709 USA. The cover letter should include the position title and HNV number. The NIEHS is an equal opportunity employer.

**Contact:** David B. Dunson, Biostatistics Branch, MD A3-03, 919-541-3033, fax: 919-541-4311, e-mail: [dunson1@niehs.nih.gov](mailto:dunson1@niehs.nih.gov)



**NIEHS** Laboratory of Molecular Genetics**Genome Stability**  
(HNV03-20)

Postdoctoral position to investigate highly relevant genome stability issues using yeast and/or human cell systems. Research projects are available in several related directions that include i) DNA double-strand breaks (origin, repair, recombination, replication, cell signaling, and real time analysis); ii) replication and mutation avoidance; iii) influence of mitochondria on genome stability; and iv) human p53 function, role in genome stability and model for evolution of regulatory networks (see <http://dir.niehs.nih.gov/dirlmg/home.htm>). A variety of genetic, molecular, and functional genomics approaches are used that have been developed in this Section. Along with exceptional facilities and resources, the Section provides a highly interactive and unique scientific environment with several areas of expertise, so as to create an exceptional training opportunity.

The Section is part of the Laboratory of Molecular Genetics (LMG) with many PI's renowned for their contributions to the area of genome stability and is located at the National Institute for Environmental Health Sciences (NIEHS) of the NIH. NIEHS is in a highly attractive area of North Carolina that is central to prominent research institutions. A unique feature of the postdoctoral program is the opportunity to apply for special grants for subsequent tenure-track academic appointments. Salary and benefits are competitive.

Applicants must not possess more than five years of post doctoral experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to the hiring scientist at the corresponding laboratory and mail drop in care of NIEHS, PO Box 12233, Research Triangle Park, NC 27709 USA. The cover letter should include the position title and HNV number. The NIEHS is an equal opportunity employer.

**Contact:** Dr. Michael Resnick, Laboratory of Molecular Genetics, MD F3-08, 919-541-4480, fax: 919-541-7593, e-mail: [resnick@niehs.nih.gov](mailto:resnick@niehs.nih.gov)



Department of Health and Human Services  
National Institutes of Health  
National Institute of  
Environmental Health Sciences  
Laboratory of Experimental Pathology  
Research Triangle Park, North Carolina

**Staff Scientist Positions**

The Division of Intramural Research, Laboratory of Experimental Pathology, has two exciting opportunities for highly motivated staff scientists as described below. For additional information about these positions, contact Carolyn Hall ([hall7@niehs.nih.gov](mailto:hall7@niehs.nih.gov)), and the inquiry will be forwarded to the appropriate individual for response. Applications from women and minority groups are particularly encouraged. The initial appointment is for five years and may be renewed every five years indefinitely. Salary commensurate with background.

**Pathologist/Laboratory Animal Veterinarian**

(Vacancy Number HNV03-13)  
Position in support of the National Toxicology Program Laboratory Animal Management Program. The successful candidate will be responsible for production of conventional and genetically modified rodents for the National Toxicology Program, for disease control and surveillance, and for genetic monitoring of rodent production colonies. Minimum qualifications include a D.V.M. degree, relevant past experience in laboratory animal management, and specialty board certification in laboratory animal medicine (ACLAM).

**Toxicologic Pathologist**

(Vacancy Number HNV03-14)  
Individual sought with expertise in toxicologic pathology for support of National Toxicology Program rodent toxicology and carcinogenicity studies. The successful scientist will be responsible for management and oversight of pathology peer review, evaluation, interpretation, and reporting of data. Minimum qualifications include a D.V.M. and Ph.D. degree with specialty board certification or relevant experience in rodent toxicologic pathology.

**To Apply**

Interested persons should send their curriculum vitae, bibliography, brief statement of research interests and arrange for three letters of recommendation to be sent to the address below. Applications received by May 15, 2003, will be given first consideration. Applications received after that date will be considered only if the position has not yet been filled.

Ms. Tammy Locklear \*(Cite Appropriate Vacancy Number)  
DHHS/NIH, Office of Human Resources, DHR0, NIEHS  
Branch E

**For Regular Mail:**  
P.O. Box 12233, Maildrop NH-01  
Research Triangle Park, NC 27709

**For Express mail:**  
4505 Emperor Blvd.  
2nd Floor Room 262B  
Durham, NC 27703

**HHS and NIH are  
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# Universität Zürich

The Medical Faculty of the University of  
Zürich, Switzerland

**Professor in Pharmacology  
and Toxicology**

within the Institute of Pharmacology and  
Toxicology. The starting date is foreseen for  
September 1, 2003.

Requirements include teaching and research in the  
main area of the field. The successful applicant  
should have a record in research in human related  
(molecular) toxicology. Management experience  
in leading a research group is expected.  
Furthermore experiences in establishing  
collaborations and networks are most welcome.

Please submit written applications (in duplicate)  
by June 15th, 2003, to the medical faculty of the  
University of Zürich, Office of the Dean  
(Coordinator of Search Committee),  
Zürichbergstrasse 14, CH-8091 Zürich,  
Switzerland.

For further information please contact the  
President of the Search Committee, Prof. Dr. Heini  
Murer, Institute of Physiology, Winterthurerstr.  
190, CH-8057 Zürich (Tel.+41-1-635 50 30).

Applicants should follow the instructions outlined  
in the "Guidelines for submission of applications",  
available on the web site of the Medical Faculty of  
the University of Zurich:  
<http://www.med.unizh.ch/dekanat/richtform.html>.

**NIEHS** Laboratory of Molecular Carcinogenesis**Molecular Biology of Lung Cancer, Mutation, and DNA Repair (HNV03-22)**

A Molecular Biology Fellowship position is available to investigate the role exposure, mutation, and DNA repair in human lung cancer. Research will examine the correlation between exposure and mutation in normal, preneoplastic, and cancer tissue. Studies will make use of large collections of frozen and laser capture microdissected samples obtained from ongoing clinical-epidemiologic studies of lung cancer using established methods in the laboratory for the sensitive detection of LOH, and with the opportunity to develop new methods to detect rare mutations in highly exposed cells. Studies will also examine the correlation between DNA repair phenotype, repair gene polymorphisms, and mutation frequency in preneoplastic and normal tissue. This position features opportunities for interdisciplinary training in the rapidly expanding field of molecular epidemiology and translational research. Excellent resources, equipment, supplies, and opportunities for training and development are available.

Applicants must not possess more than five years of post doctoral experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to the hiring scientist at the corresponding laboratory and mail drop in care of NIEHS, PO Box 12233, Research Triangle Park, NC 27709 USA. The cover letter should include the position title and HNV number. The NIEHS is an equal opportunity employer.

**Contact:** Dr. Jack A. Taylor, Laboratory of Molecular Carcinogenesis, MD A3-05, 919-541-4631, fax: 919-541-2511, e-mail: [taylor@niehs.nih.gov](mailto:taylor@niehs.nih.gov)

**NIEHS** Epidemiology Branch**Respiratory Disease Epidemiology (HNV03-21)**

A postdoctoral fellowship is available to study the role of genetic and environmental factors on respiratory disease in adults and children. The fellow will participate in analysis of data from ongoing and completed studies and in the design and conduct of new studies. There is the opportunity to participate in laboratory analyses of genetic samples, if interested.

Protected time will be provided in order for the fellow to develop a track record of publication in peer-reviewed journals. Qualifications: Applicants should hold a doctoral degree in epidemiology or a related field, or an M.D. plus experience or training in epidemiology (MPH or equivalent). Applications will be considered from doctoral students who are close to completing their degree requirements.

Applicants must not possess more than five years of post doctoral experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to the hiring scientist at the corresponding laboratory and mail drop in care of NIEHS, PO Box 12233, Research Triangle Park, NC 27709 USA. The cover letter should include the position title and HNV number. The NIEHS is an equal opportunity employer.

**Contact:** Dr. Paula Juras, Branch Administrator, Epidemiology Branch, MD A3-05, 919-541-3478, fax: 919-541-2511, e-mail: [juras@niehs.nih.gov](mailto:juras@niehs.nih.gov)

**NIEHS** National Toxicology Program**Applied Toxicology and Carcinogenesis (HNV03-08)**

A non-laboratory post-doctoral position is available that is devoted to gaining a fundamental understanding of the skills needed to perform all aspects of contracted studies of the toxicity of chemicals of interest to the National Toxicology Program. The position involves serving as a study scientist which requires extensive participation and interactions with various scientific disciplines such as chemistry, pathology, toxicokinetics, epidemiology, statistics and molecular biology. An in depth study in one area of particular interest is also an available option. Applicants with a Ph.D. in Toxicology or an allied science with an interest in pursuing a career in regulatory or industrial toxicology are encouraged to apply.

Applicants must not possess more than five years of post doctoral experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to the hiring scientist at the corresponding laboratory and mail drop in care of NIEHS, PO Box 12233, Research Triangle Park, NC 27709 USA. The cover letter should include the position title and HNV number. The NIEHS is an equal opportunity employer.

**Contact:** Dr. John Bucher, PhD, National Toxicology Program, MD EC-34, 919-541-4532, fax 919- 541-4255, e-mail: [bucher@niehs.nih.gov](mailto:bucher@niehs.nih.gov)

**NIEHS** Division of Intramural Research**Neurodevelopment Biology (HNV03-07)**

The NIEHS, a major research component of the National Institutes of Health and the Department of Health and Human Services, is recruiting for a postdoctoral scientist to study the role of a novel transcription factor in mouse brain development. Emphasis will be placed on studies that attempt to determine the molecular mechanisms and inducing signals responsible for the normal developmental pattern of expression of this transcription factor in the brain, as well as the identification of downstream genes whose patterns of expression are directly affected by this transcription factor. Applicants should possess a PhD degree in molecular biology, cell biology, or biochemistry, and have less than five years of relevant postdoctoral experience. Prior experience in developmental neurobiology is preferred but not necessary. Salary will be commensurate with experience.

Applicants must not possess more than five years of postdoctoral experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to the hiring scientist at the corresponding laboratory and mail drop in care of NIEHS, PO Box 12233, Research Triangle Park, NC 27709 USA. The cover letter should include the position title and HNV number. The NIEHS is an equal opportunity employer.

**Contact:** Darryl C. Zeldin, Division of Intramural Research, MD D2-01, 919-541-1169, fax: 919-541-4133, e-mail: [zeldin@niehs.nih.gov](mailto:zeldin@niehs.nih.gov), or Perry J. Blackshear, Division of Intramural Research, MD D2-01, 919-541-4899, fax: 919-541-4571, [black009@niehs.nih.gov](mailto:black009@niehs.nih.gov)

**NIEHS** Inositol Signaling Group**Cell Signaling by Inositol Phosphates (HNV02-25)**

Through interactions with chloride channels, inositol 3,4,5,6-tetrakisphosphate regulates release of insulin and neurotransmitters, and also controls salt and fluid secretion. Inositol phosphates with seven and eight phosphate groups regulate vesicle traffic and mediate responses to environmental stress. We have a vacancy for an enthusiastic and dedicated postdoc with an interest in pursuing the molecular and cellular mechanisms underlying signaling by these inositol phosphates. It would be advantageous if applicants had knowledge and experience in one or more of the following areas: transfection of mammalian cells, RNAi, bacterial and/or insect protein expression systems, protein purification methods, and confocal imaging. Position is available Jan/Feb 2003, but a later start date is negotiable. Additional information and recent publications can be viewed at <http://dir.niehs.nih.gov/dirlst/groups/shears.htm>.

Applicants must not possess more than five years of postdoctoral experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to the hiring scientist at the corresponding laboratory and mail drop in care of NIEHS, PO Box 12233, Research Triangle Park, NC 27709 USA. The cover letter should include the position title and HNV number. The NIEHS is an equal opportunity employer.

**Contact:** Stephen Shears, Inositol Signaling Group, F2-06, 919-541-0793, fax: 919-541-0559, e-mail: [shears@niehs.nih.gov](mailto:shears@niehs.nih.gov)

**NIEHS** Laboratory of Molecular Genetics**Somatic Mutagenesis of Immunoglobulin Genes (HNV02-24)**

A postdoctoral position is available in the Somatic Immunoglobulin Hypermutation Group, Laboratory of Molecular Genetics, to work on somatic mutagenesis of immunoglobulin genes. Candidates should have experience in both tissue culture and molecular genetics, including the construction of targeting vectors to make knockout and/or transgenic mice, southern and northern hybridization, PCR, DNA sequencing, and standard cloning procedures. Candidates should also have a strong background in immunology and/or DNA repair. The focus of the work will be on the poorly understood immunoglobulin hypermutation mechanism, which may include molecules such as DNA polymerases and helicases, proteins involved in DNA repair, and transcription regulators. For more information, see the references listed below. This laboratory will also explore the links between immunoglobulin hypermutation and generalized mechanisms of DNA repair and/or replication that can result in mutagenesis.

Applicants must not possess more than five years of postdoctoral experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to the hiring scientist at the corresponding laboratory and mail drop in care of NIEHS, PO Box 12233, Research Triangle Park, NC 27709 USA. The cover letter should include the position title and HNV number. The NIEHS is an equal opportunity employer.

**Contact:** Marilyn Diaz, Laboratory of Molecular Genetics, MD 3-01, 919-541-3241, fax: 919-316-4620, e-mail: [diaz@niehs.nih.gov](mailto:diaz@niehs.nih.gov)